



# Public Service Commission

## State of North Dakota

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October 19, 2009

Mr. Jeff Fleischman, Director  
Casper Field Office  
Office of Surface Mining  
PO Box 11018  
Casper WY 82602-5004

Dear Mr. Fleischman:

This letter and attachment is the forth quarterly report for North Dakota's FY 2008 Underground Mine Map Grant (e-grant S08AP12777). The report covers the three month period that ended August 31, 2009. A completed Financial Status Report, Form 269, is enclosed that shows the expenditures during the reporting period.

The project began this reporting period with the purchase of hardware that included two Dell workstations with Intel I7 processors capable of processing large raster datasets and a 30 inch HP monitor for viewing and georeferencing the maps. A temporary employee with GIS experience was hired through a local employment service company to carry out tasks as described in the cooperative agreement.

Previously scanned and georeferenced underground mine maps were added to our geodatabase. The raster mine maps have been vectorized using ArcScan so that mine workings can be more easily viewed when overlaid on aerial photographs, and underground mine extents or footprints have been digitized for each of the scanned mine maps and organized by county. Point locations have also been developed for each mine and include attributes such as corresponding raster map, vector map, and footprint, and year of map. Several documents were also scanned and OCR'd (optical character recognition) into searchable documents. The text data will be linked to the underground mine features in our GIS. The underground mine extents for footprint feature class is being developed in accordance with the ASTM Standard Practice for Minimum Geospatial Data for Underground Coal Mining Extents, standard designation D 7443-08 that had been developed by the Coal Mining Spatial Data Standards ASTM Task Group.

Mr. Jeff Fleischman, Director  
October 19, 2009  
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It appears work under this grant will be completed prior to November 30, 2009, the end date of the cooperative agreement as extended. If you have any questions, please contact Gloria Geiger or me.

Sincerely,

A handwritten signature in black ink, appearing to read "James R. Deutsch". The signature is fluid and cursive, with the first name "James" and last name "Deutsch" clearly distinguishable.

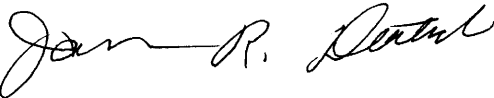
James R. Deutsch  
Director  
AML Division

Enclosure

cc: Frank Atencio (e-mail)  
Christina Hulsman (e-mail)

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FINANCIAL STATUS REPORT  
(Long Form)

1. Federal Agency and Organizational Element to Which Report is Submitted  U.S. Department of Interior Office of Surface Mining -		2. Federal Grant or Other Identifying Number Assigned by Federal Agency  E-Grant S08AP12777		OMB Approval No. 0348-0039	Page 1	of 1 Pages
3. Recipient Organization (Name and complete address, including ZIP code) PUBLIC SERVICE COMMISSION 600 E. Boulevard Ave. Dept 408 Bismarck ND 58505-0480						
4. Employer Identification Number 45-0309764		5. Recipient Account Number or Identifying Number		6. Final Report [ ] Yes [X] No	7. Basis [x] Cash [ ] Accrual	
8. Funding/Grant Period (See Instructions) From: (Month, Day, Year) 9-1-08		To: (Month, Day, Year) 11-30-09 (as extended)		9. Period Covered by this Report From: Month, Day, Year 6-1-09		To: (Month), Day, Year 8-31-09
10. Transactions:		I Previously Reported		II This Period		III Cumulative
a. Total outlays		0		0		0
b. Refunds, rebates, etc.		0		0		0
c. Program income used in accordance with the deduction alternative		0		0		0
d. Net outlays (Line a, less the sum of lines b and c)		0		0		0
Recipient's share of net outlays, consisting of:		0		0		0
e. Third party (in-kind) contributions		0		0		0
f. Other Federal awards authorized to be used to match this award		0		0		0
g. Program income used in accordance with the matching or cost sharing alternative		0		0		0
h. All other recipient outlays not shown on lines e, f, or g		0		0		0
i. Total recipient share of net outlays (Sum of lines e, f, g and h)		0		0		0
j. Federal share of net outlays (line d less line i)		0		0		11,818.92
k. Total unliquidated obligations						0
l. Recipient's share of unliquidated obligations						0
m. Federal share of unliquidated obligations						0
n. Total federal share (sum of lines j and m)						11,818.92
o. Total federal funds authorized for this funding period						14,887.00
p. Unobligated balance of federal funds (Line o minus line n)						3,068.08
Program income, consisting of:						0
q. Disbursed program income shown on lines c and/or g above						0
r. Disbursed program income using the addition alternative						0
s. Undisbursed program income						0
t. Total program income realized (Sum of lines q, r and s)						0
11. Indirect Expense	a. Type of Rate (Place "X" in appropriate box) [ ] Provisional [X] Predetermined [ ] Final [ ] Fixed [ ] Proposed					
	b. Rate N/A	c. Base 0	d. Total Amount 0	e. Federal Share 0		
12. Remarks: Attach any explanations deemed necessary or information required by Federal sponsoring agency in compliance with governing legislation						
13. Certification I certify to the best of my knowledge and belief that this report is correct and complete and that all outlays and unliquidated obligations are for the purposes set forth in the award documents						
Typed or Printed Name and Title  James R. Deutsch Director, AML Division			Telephone (area code, number and extension)  (701) 328-2251			
Signature of Authorized Certifying Official  			Date Report Submitted  October 19, 2009			